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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/642,785	08/22/2000	Woo Nam Jeong	2658-0166р	2432
75	90 09/23/2003			
Birch Stewart Kolasch & Birch LLP P O Box 747 Falls Church, VA 22040-0747			EXAMINER	
			NGUYEN, HOAN C	
			ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 09/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/642,785	JEONG ET AL.			
		Examiner	Art Unit			
		HOAN C. NGUYEN	2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for R ply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)	Responsive to communication(s) filed on	<u> </u>				
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition f Claims						
4)⊠	Claim(s) <u>1-15</u> is/are pending in the application					
	4a) Of the above claim(s) <u>16-27</u> is/are withdrawn from consideration.					
5)[Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1,2,4-10 and 13-15</u> is/are rejected.					
7)	Claim(s) <u>3 and 11-12</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) A Notice 2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)			
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DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of the last actions is withdrawn.

Response to Arguments

Applicant's arguments filed on 8/25/2003 with respect to claims 1-15 have been considered but are most in view of the new ground(s) of rejection. This argument of the After-Final response filed on 8/25/2003 overcomes the reference of Stupp et al. (US5305128A), which is replaced by better reference of Murakami et al. (US6040814A). This third final action is also based on the amendment filed on 11/25/2002.

Applicant provides on 3/25/2003 the English translation of priority of Korea P99-35502 filed August 25, 1999 to overcome the prior art rejection over Choi (US6326641B1) filed Nov. 24. 1999. **The second final action based on the amendment filed on 11/25/2002** is now withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/642,785 Page 3

Art Unit: 2871

1. Claims 1-2, 4-10 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gu et al. (US5955744A) in view of Murakami et al. (US6040814A).

In regard to claim 1, Gu et al. disclose (Figs. 3 and 6) a liquid crystal display device comprising:

- a gate line 7 connected to an integrally formed gate electrode 4;
- a data line 5 crossing the gate line and connected to an integrally formed source electrode;
- a protective film 33 formed on the gate line and on the data line;
- a pixel electrode 3 formed on the protective film and connected to a drain electrode,
- a first portion of the pixel electrode overlapping the data line (Fig. 6)
- a storage electrode 38 connected to the pixel electrode and overlapping the gate line.

wherein

- a portion of the storage electrode 12 is laterally spaced a second distance from the data line according to claim 2.
- the first portion of the pixel electrode and the portion of the storage electrode are located in at least one corner of the pixel electrode according to claim 4.
- a second portion of the pixel electrode overlaps a data line adjacent to the data
 line overlapped by the first portion of the pixel electrode according to claim 5.
- the first and second portions of the pixel electrode extend along an entire side of the pixel electrode according claims 6 and 7.

Page 4

 the pixel electrode includes: a gate overlapping part overlapping a gate line on a side of the pixel electrode opposite from the storage electrode according to claim 10.

the protection layer 33 is an organic film made of Benzocyclobutence (BCB)
 having a dielectric constant less than 3.0 according to claims 13 and 14...

In regard to claims 8 and 9, Gu et al. disclose (Figs. 3 and 6) a liquid crystal display device comprising the storage electrode 12 is integral to the pixel electrode 3 at a contact hole 38.

In regard to claim 15, Gu et al. disclose (Figs. 3 and 6) a liquid crystal display device comprising:

- a gate line 7 connected to an integrally formed gate electrode 4;
- a data line 5 crossing the gate line, and connected to an integrally formed source electrode;
- a protective film 33 formed on the gate line and on the data line;
- a pixel electrode 3 formed on the protective film and connected to a drain electrode, a portion of the pixel electrode overlapping the data line;
- a storage electrode 12 connected to the pixel electrode 3 and overlapping the gate line, a portion of the storage electrode being laterally spaced a distance from the data line.

Application/Control Number: 09/642,785

Page 5

Art Unit: 2871

Gu et al. fail to disclose a liquid crystal display device with a first portion of the pixel electrode being laterally spaced a first distance from the gate line;

Murakami et al. teach (Figs. 7A-B) disclose a liquid crystal display device with a first portion of the pixel electrode being laterally spaced a first distance from the gate line for preventing cross-talk with capacitance between each cell and adjacent data lines (col. 2 lines 5-9).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify a liquid crystal display device as Gu et al. disclosed with a first portion of the pixel electrode being laterally spaced a first distance from the gate line for preventing cross-talk with capacitance between each cell and adjacent data lines.

Allowable Subject Matter

Claims 3 and 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In regard to claim 3, the prior art of record does not anticipate obvious to one ordinary skill in the art of a liquid crystal display device further comprising

the pixel electrode overlapping with data line and being laterally spaced a <u>first</u>
 distance of about 5μm from gate line;

 a storage electrode connected to the pixel electrode and overlapping the gate line, wherein a portion of the storage electrode is laterally spaced a second distance of about 5μm from the data line.

In regard to claim 11, the prior art of record does not anticipate obvious to one ordinary skill in the art of a liquid crystal display device further comprising the pixel electrode including four corners being laterally spaced from the data and gate lines.

Claim 12 is allowable since it depends on the allowable claim 11.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/642,785 Page 7

Art Unit: 2871

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703) 306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN Examiner Art Unit 2871

chn September 14, 2003